



## **HAZARDOUS WASTE TANK SYSTEM ASSESSMENT**

### **ARIA Solvent Waste System Santa Clara, CA**

*Prepared for:*  
**Apple, Inc.**

1 Infinite Loop  
Cupertino, California 95014

*Prepared by:*

**TRC**

10680 White Rock Road, Suite 100  
Rancho Cordova, CA 95670

**October 2022**

# **HAZARDOUS WASTE TANK SYSTEM ASSESSMENT**

## **TABLE OF CONTENTS**

	<u>PAGE NO.</u>
TABLE OF CONTENTS	i
<b>SECTION</b>	
I. INTRODUCTION	1
II. PURPOSE	1
III. ASSESSMENT AND FINDINGS	1
IV. CERTIFICATION	4

## **LIST OF FIGURES**

FIGURE 1: Tank System Layout  
FIGURE 2: Tank System Layout

## **LIST OF APPENDICES**

APPENDIX A: Photographs

## **LIST OF ATTACHMENTS**

ATTACHMENT 1: Lift Station (SW-LS) Information  
ATTACHMENT 2: Collection Cabinet (SW-CC-1) Information  
ATTACHMENT 3: Leak Test Records  
ATTACHMENT 4: Solvent Waste Tank (SW-TNK-2) Information

## **I. INTRODUCTION**

This assessment is specifically for the Solvent Waste (SW) System at the Apple, Inc. (Apple) ARIA facility (Facility), located at 3250 Scott Boulevard in Santa Clara, California.

This assessment was performed in accordance with the requirements of Section 66265.192 of Title 22 of the California Code of Regulations (22 CCR 66265.192), and included a physical inspection of the tank system and an evaluation of secondary containment.

The SW System was originally assessed in 2015. Modifications to the SW System were completed in 2018 and the new components were assessed at that time. This is a 5-year re-assessment per 22 CCR 66265.192(h)(1) to bring all systems at the facility onto the same assessment schedule.

## **II. PURPOSE**

22 CCR 66265.192 requires that owners of a new hazardous waste tank system (subject to 22 CCR 67450.2 "Permit by Rule") to ensure that the tank system is adequately designed and constructed, and obtain and keep on file at the Facility a written assessment reviewed and certified by an independent, qualified, professional engineer, registered in California that attests to the tank system's integrity.

The written assessment shall determine that the tank system is adequately designed and has sufficient structural strength and compatibility with the waste(s) to be transferred, stored or treated to ensure that it will not collapse, rupture, or fail.

At a minimum, the assessment for an above-ground system shall include the following information: 1) design standard(s) according to which the tank and ancillary equipment have been constructed; 2) hazardous characteristics of the waste(s) to be handled; 3) foundation and seismic anchorage design.

All new tank systems shall be tested for tightness, and determined to be free of leaks before being placed in use.

In accordance with 22 CCR 66265.192(h)(1), the assessment is valid for a maximum period of five (5) years, and shall include all of the information described in 22 CCR 66265.192(k). The required assessment information is presented in the following Section III.

## **III. ASSESSMENT AND FINDINGS**

### **22 CCR 66265.192(k)(1)**

The tank system consists of the solvent waste pump lift station (SW-LS), solvent waste collection cabinet (SW-CC-1), a Solvent Waste Tank (SW-TNK-2) and ancillary piping. The lift station is a vertical rectangular tank constructed of stainless steel and has a primary tank capacity of 67 gallons. The Solvent Waste Tank is double-walled, with a primary tank constructed of stainless steel having a capacity of 1,700 gallons, and a secondary tank constructed of carbon steel having a capacity of 1,870 gallons.

**22 CCR 66265.192(k)(2)**

**SW-LS**

The solvent waste pump lift station tank is constructed of 12-ga. 316 stainless steel. Tank system structural design is in accordance CBC 2013 and ASCE 7-10. Ancillary piping, including containment piping, is Schedule 40 (SCH-40) stainless steel. See Figure 1 for pipe sizes. The lift station utilizes two (2) internal 1-hp stainless steel submersible pumps. A drawing of the tank, with dimensions, and collection cabinet (SW-CC-1) are included in Attachments 1 and 2, respectively.

**SW-TNK-2**

The solvent waste tank (primary) is constructed of 316L stainless steel. Tank system structural design is in accordance with UL142 (Standard for Steel Aboveground Tanks for Flammable and Combustible Liquids) and UL2085 (Standard for Protected Aboveground Tanks for Flammable and Combustible Liquids). Ancillary piping from SW-CC-1 is carbon-impregnated PFA Teflon inside 304SS stainless steel containment. Ancillary piping to the tanker suction connection point is 316SS stainless steel inside 304SS stainless steel containment. See Figure 2 for pipe sizes. The tank is filled using the lift station pumps described above. A drawing of the tank, with dimensions, is included in Attachment 4.

**22 CCR 66265.192(k)(3)**

The solvent waste lift station, collection cabinet and associated ancillary piping were constructed in 2015. The solvent tank was constructed in June 2017 and installation of the tank and ancillary piping was completed in 2018.

**22 CCR 66265.192(k)(4)**

The lift station tank (SW-LS) is double-walled and the space between the primary and secondary tank is equipped with a liquid sensor that would detect a leak from the primary tank. The lift station pit is equipped with a liquid sensor that would detect a leak from the tank or related ancillary piping.

The collection cabinet (SW-CC-1) containment is also constructed of stainless steel and is equipped with a liquid sensor that would detect a leak from the drums or elsewhere within the cabinet.

The solvent waste tank (SW-TNK-2) is double-walled and the space between the primary and secondary tank is equipped with a liquid sensor that would detect a leak from the primary tank.

Ancillary pipe is double-walled and sloped to drain to liquid sensors that would detect a leak in the primary pipe.

All automated systems, including liquid sensors for leak detection, have been tested and confirmed to operate as designed.

**22 CCR 66265.192(k)(5)**

The tank system is entirely above-ground and materials are not subject to corrosion.

**22 CCR 66265.192(k)(6)**

The lift station tank, solvent waste tank and drums within the collection cabinet are equipped with ultrasonic level sensors to prevent overflow. All automated systems, including liquid level sensors and pump controls, have been tested and confirmed to operate as designed.

**22 CCR 66265.192(k)(7)**

The lift station tank (SW-LS) is set within a secondary containment tank, also constructed of 12-ga. SCH-40 stainless steel, with a capacity of 115 gallons.

The collection cabinet (SW-CC-1) has a secondary containment capacity of 78 gallons.

The solvent waste tank (SW-TNK-2) is double-walled, with a secondary tank capacity of 1,870 gallons.

Ancillary pipe is double-walled and sloped to drain to liquid sensors that would detect a leak in the primary pipe. The sensor locations area also fitted with ports that would allow for collection of the leaked liquid.

Along with the leak detection systems described above, the secondary containment for the tank system meets the standards of 22 CCR 66265.192(j) and 22 CCR 66265.193.

**22 CCR 66265.192(k)(8)**

The system generally handles solvent (approximately 5% isopropyl alcohol and other solvents in water) waste liquids generated from laboratory activities.

**22 CCR 66265.192(k)(9)**

No structural damage or inadequate construction/installation items (cracks, punctures, or damaged fittings) were observed.

**22 CCR 66265.192(k)(10)**

All ancillary pipe was leak tested using air-pressure, test results are included as Attachment 3.

The lift station and solvent waste tank were tested by the manufacturer prior to transport to the Facility.

**22 CCR 66265.192(k)(11)**

Based on the findings of this assessment, the tank system has an estimated remaining service life of approximately 20 years under existing conditions. The estimated remaining service life should be re-evaluated every five (5) years, in conjunction with the re-assessment in accordance with the requirements of 22 CCR 66265.192(h)(1).

#### IV. CERTIFICATION

## ARIA Solvent Waste System October 2022

22 CCR 66265.192 requires that owners of a new hazardous waste tank system (subject to 22 CCR 67450.2 "Permit by Rule") ensure that the tank system is adequately designed and constructed, and obtain and keep on file at the Facility a written assessment reviewed and certified by an independent, qualified, professional engineer, registered in California that attests to the tank system's integrity.

The preceding written assessment has determined that the tank system is adequately designed and has sufficient structural strength and compatibility with the waste(s) to be transferred, stored or treated to ensure that it will not collapse, rupture, or fail. This assessment for an above-ground system considered the following: 1) design standard(s) according to which the tank and ancillary equipment have been constructed; 2) hazardous characteristics of the waste(s) to be handled; 3) foundation and seismic anchorage design.

The tank system was inspected on October 19, 2022. The visual inspection found none of the following to be in evidence: leaks, weld breaks, punctures, scrape of protective coatings, cracks, corrosion, structural damage or installation defects.

As required by 22 CCR 66265.192(k)(11), based on the findings of this assessment, I estimate that the new tank system has at least twenty (20) years of service life under current conditions. In accordance with 22 CCR 66265.192(h)(1), this assessment is valid for a maximum period of five (5) years and the tank system should be re-assessed at that time to obtain a new estimate of remaining service life.

**Based on my assessment of the tank system, I can attest that the tank system has sufficient structural integrity, is acceptable for transferring, storing and treating the intended hazardous waste, and is suitably designed to achieve the requirements under 22 CCR 66265.192.**

*I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to be the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.*



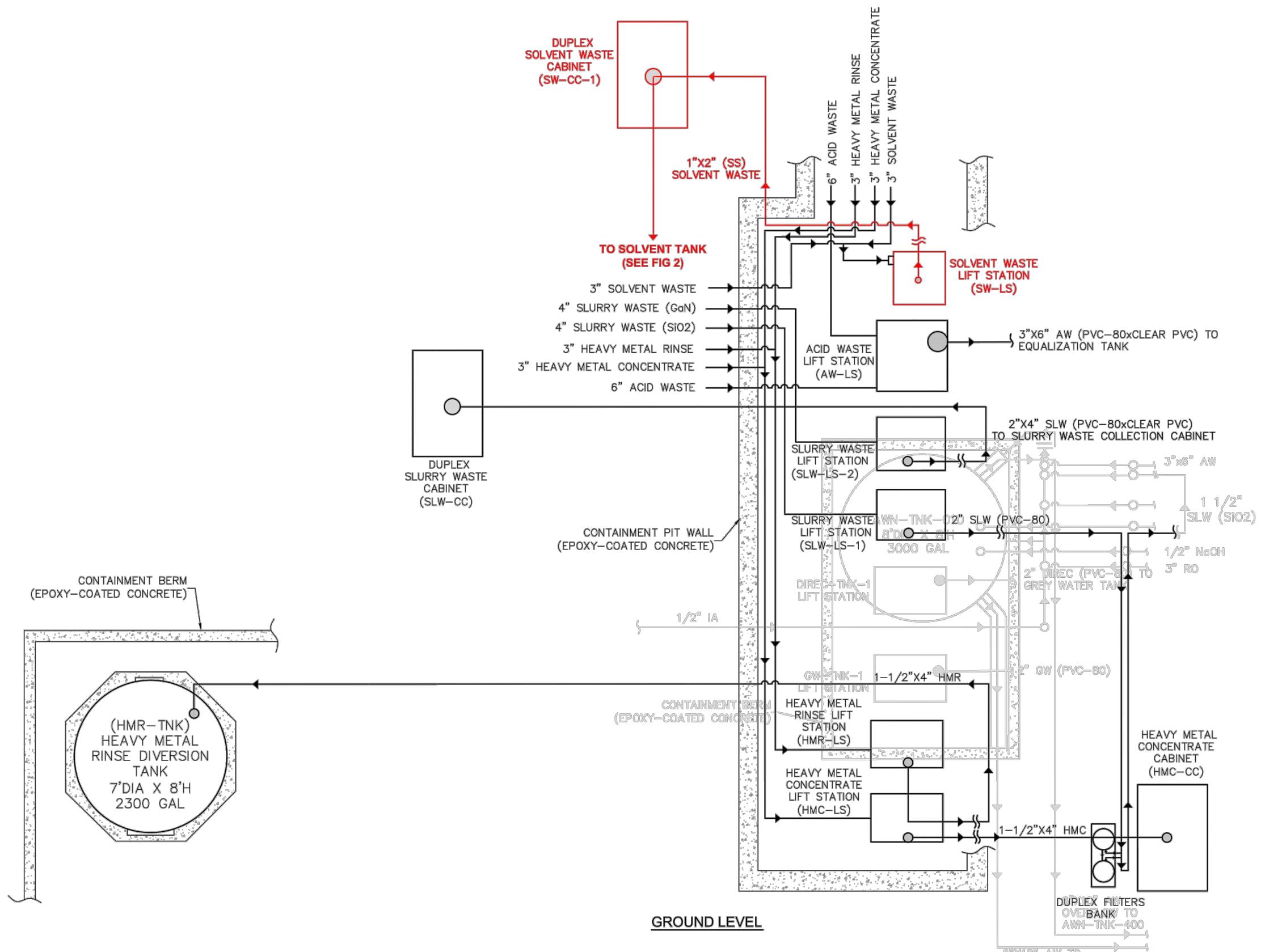
Stephen V. Huvane, P.E.  
Civil (CA) No. 52385



12-9-2022

Date

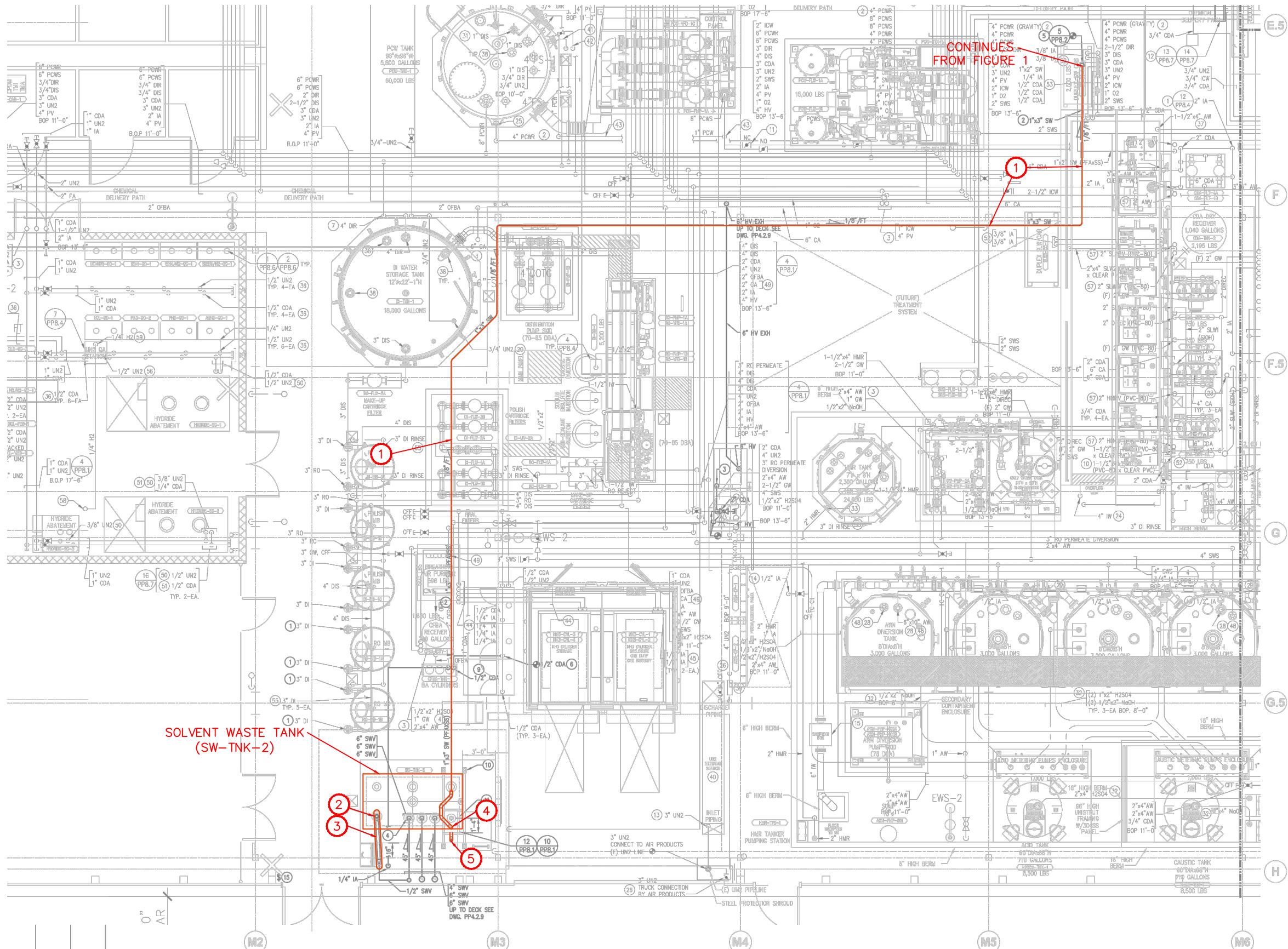
## FIGURES



**LEGEND**

— SYSTEM COMPONENTS ASSESSED

**TANK SYSTEM LAYOUT  
SOLVENT WASTE SYSTEM**



#### LEGEND

— SYSTEM COMPONENTS ASSESSED

## TANK SYSTEM LAYOUT SOLVENT WASTE SYSTEM

#### NOTES

- ① SOLVENT WASTE TRANSFER PIPING TO BE 3" 304 SS x 1" CARBON IMPREGNATED PFA TEFLO TUBING, ORBITALLY WELDED, SECONDARY CONTAINMENT TUBING SHALL BE TOTALLY WELDED.
- ② 6" SCH-5 SS 304 SECONDARY CONTAINMENT PIPE.
- ③ 3" SW SS 316 SCH-40 TANKER SUCTION PIPE.
- ④ 3" SS 304 SECONDARY CONTAINMENT TUBING DOWN TO BOX.
- ⑤ LEAK SENSOR.

N

SCALE (FEET)



**APPENDIX A**

**PHOTOGRAPHS**

**October 19, 2022**



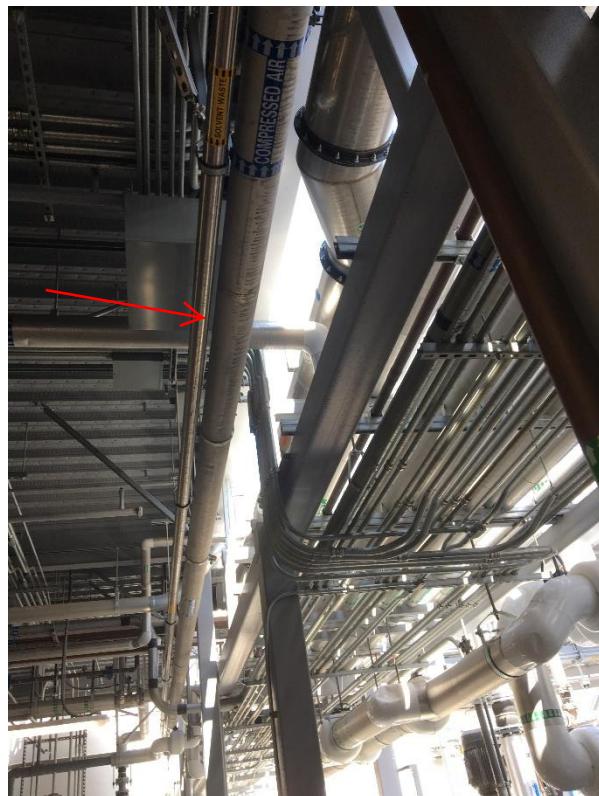
Solvent Waste Lift Station (SW-LS) and Ancillary Piping



Solvent Waste Collection Cabinet (SW-CC)



Solvent Waste Collection Cabinet (SW-CC) and Ancillary Piping



Ancillary Piping (2018 photo)



Ancillary Piping (2018 Photo)



Ancillary Piping (2018 Photo)

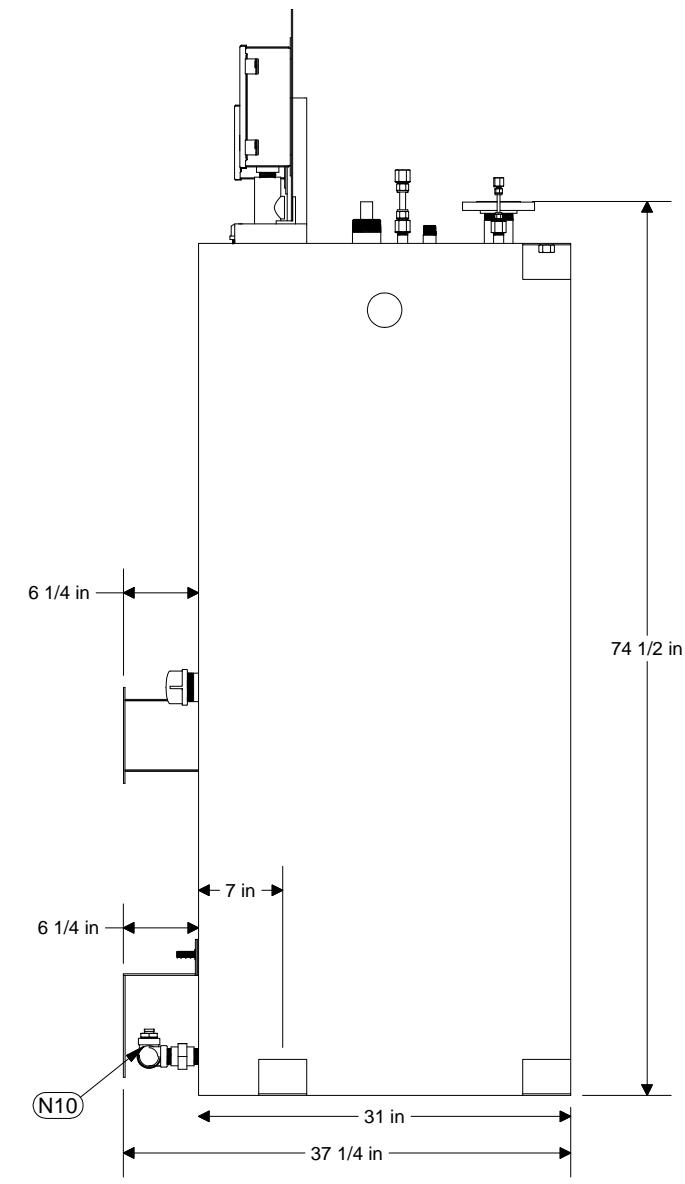
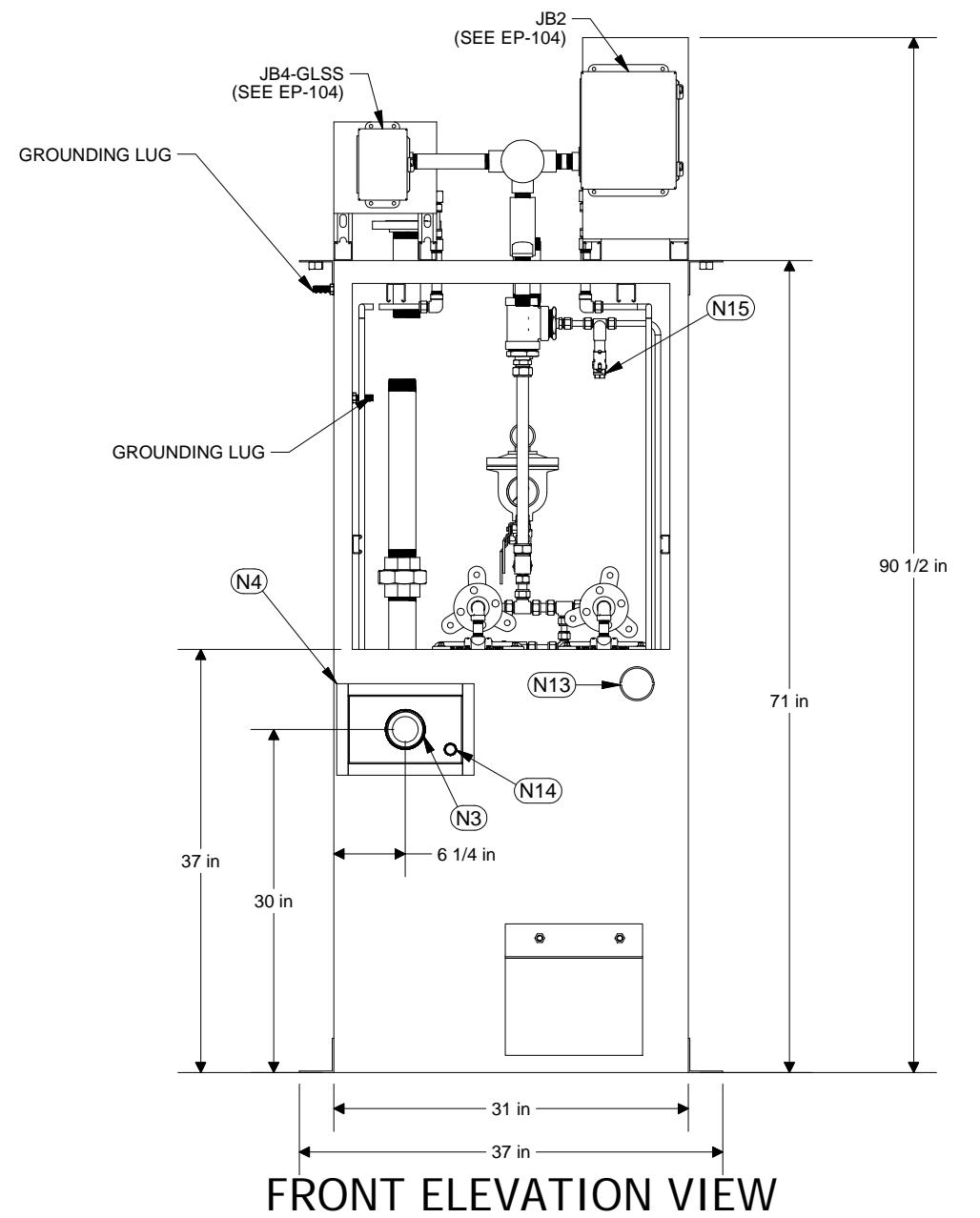
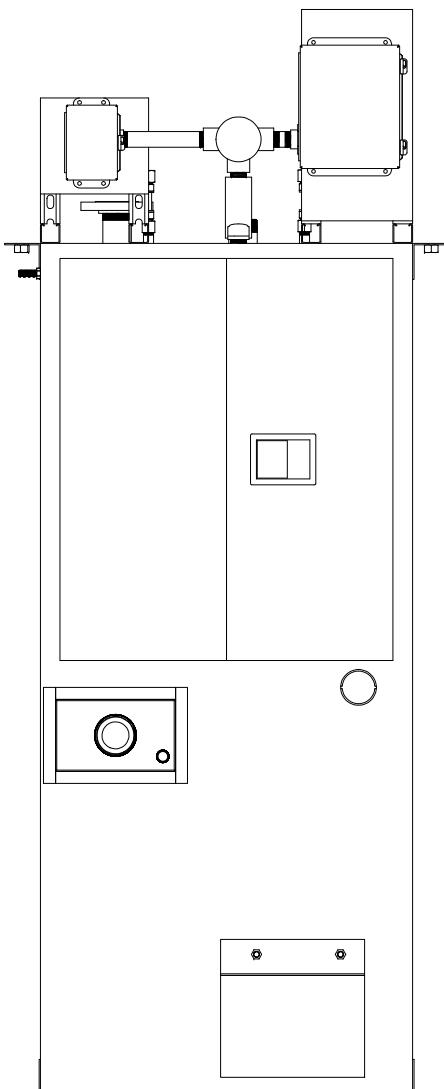
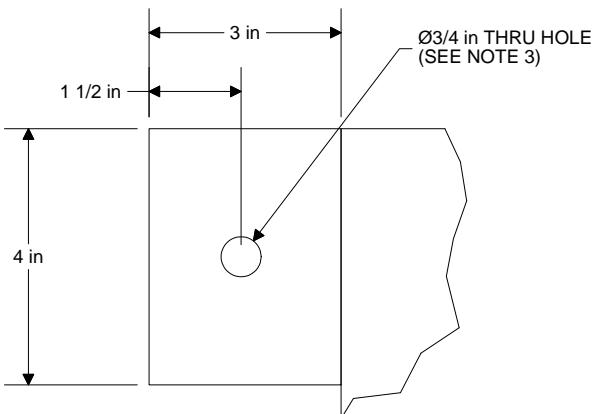
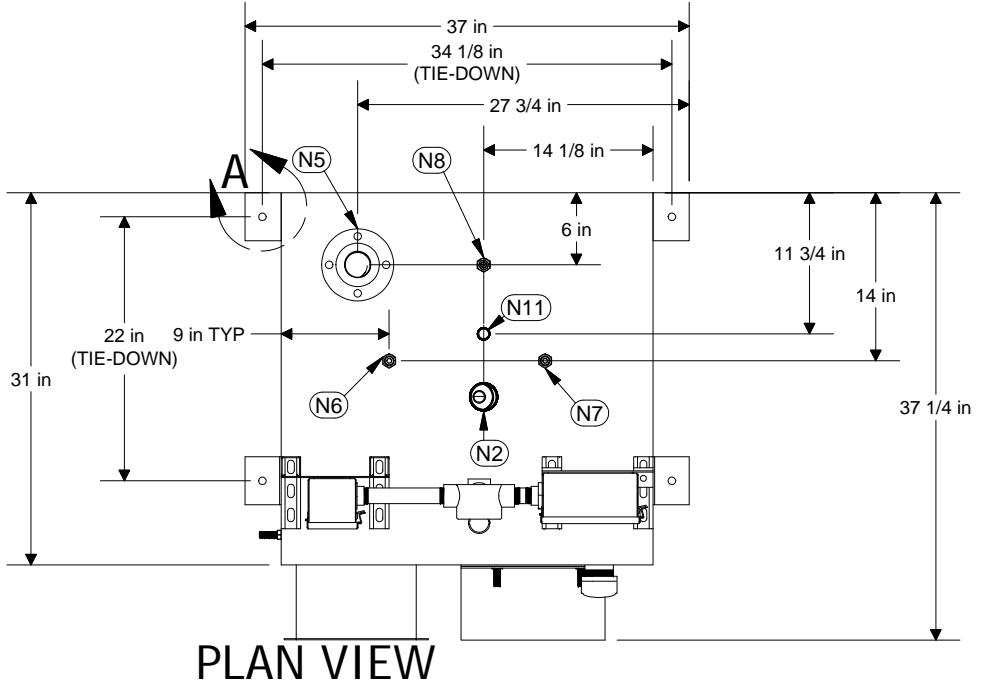


Solvent Waste Tank (SW-TNK-2) (2018 Photo)



Solvent Waste Tank Pumpout Cabinet (2018 Photo)

ATTACHMENT 1  
LIFT STATION (SW-LS) INFORMATION



NOZZLE SCHEDULE			
NOZZLE	DESCRIPTION	QTY	SERVICE
N1	1" TUBE	1	DISCHARGE CONNECTION
N2	2" MNPT	1	DOUBLE CONTAINMENT
N3	3" MNPT	1	INLET CONNECTION
N4	6"x10" TROUGH	1	DOUBLE CONTAINMENT
N5	2" FLANGE	1	VENT CONNECTION
N6	3/8" FNPT	1	CDA SUPPLY TO SW-PMP-1A
N7	3/8" FNPT	1	CDA SUPPLY TO SW-PMP-1B
N8	1/4" FNPT	1	CDA SUPPLY TO PD SW-LS-1-1
N9	2" FNPT	1	OVERFLOW (PLUGGED)
N10	1" FNPT	1	SECONDARY TANK DRAIN
N11	3/4" MNPT	1	FIRE PROTECTION SYSTEM
N12	1/2" TUBE	1	SECONDARY CONTAINMENT DRAIN
N13	2" MNPT	1	CABINET OVERFLOW
N14	3/4" MNPT	1	INLET CONTAINMENT DRAIN
N15	1/4" FNPT	1	CONTAINMENT DRAIN TEST PORT

NOTES:

- MATERIALS OF CONSTRUCTION:  
A) CABINET TO BE FABRICATED FROM 304 STAINLESS STEEL  
B) PRIMARY TANK TO BE FABRICATED FROM 12 GA 316 STAINLESS STEEL  
C) TANK LID AND ENCLOSURE FABRICATED FROM 10 GA 316 STAINLESS STEEL  
D) TIE-DOWNS FABRICATED FROM 1/4" THICK 316 STAINLESS STEEL  
E) ALL PRESSURIZED PIPING, TUBING, AND FITTINGS 316SS SCHED 40  
F) ALL NON PRESSURIZED PIPING, TUBING AND FITTINGS 316SS SCHED 10
- INSTALLATION, INTERCONNECTING PIPING AND WIRING SUPPLIED AND INSTALLED BY OTHERS. INSTALLER TO PROVIDE ADEQUATE VENTILATION TO SYSTEM.
- ANCHOR BOLTS TO BE SIZED BY WASTECH, SUPPLIED BY OTHERS.
- DIMENSIONS FOR REFERENCE ONLY. TOLERANCE ±2%
- APPROXIMATE EQUIPMENT WEIGHTS:  
A) DRY WEIGHT: 825 LBS  
B) OPERATING WEIGHT: 1420 LBS  
C) MAXIMUM WEIGHT: 1890 LBS

REV.	DATE:	BY:	DESCRIPTION
3	5/14/2015	MM	AS BUILT
2	3/31/2015	MM	ISSUED FOR FABRICATION
1	1/22/2015	MM	RESUBMITTED FOR APPROVAL
0	12/12/2014	MM	SUBMITTED FOR APPROVAL

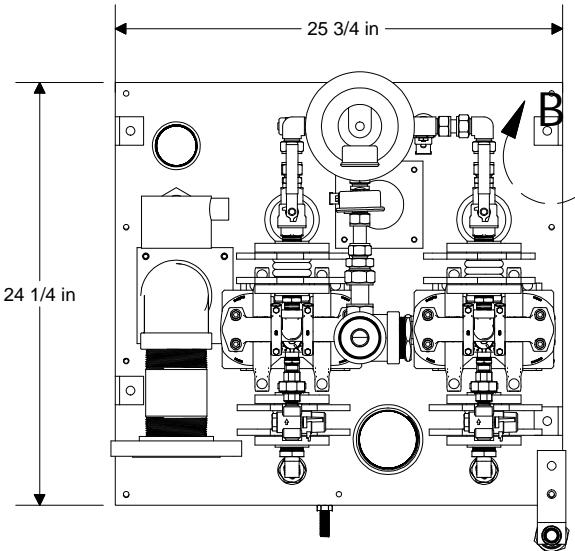
APPROVALS		DATE
DRAWN BY:	MM	12/12/2014
PROJECT ENG.:	SS	
ENGINEERING MANAGER:	SS	

#### PROPRIETARY INFORMATION

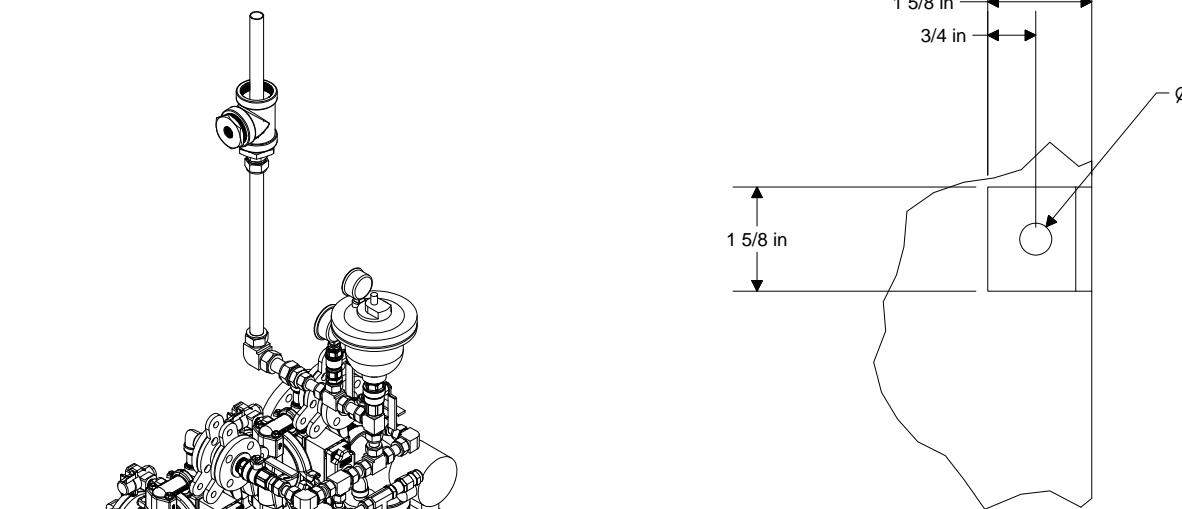
©2015 WASTECH CONTROLS & ENGINEERING, INC.  
THIS DRAWING AND ALL INFORMATION HEREON IS THE PROPERTY OF WASTECH CONTROLS & ENGINEERING INC.  
ANY COPYING, REPRODUCTION OR UNAUTHORIZED USE WITHOUT WRITTEN CONSENT IS PROHIBITED.



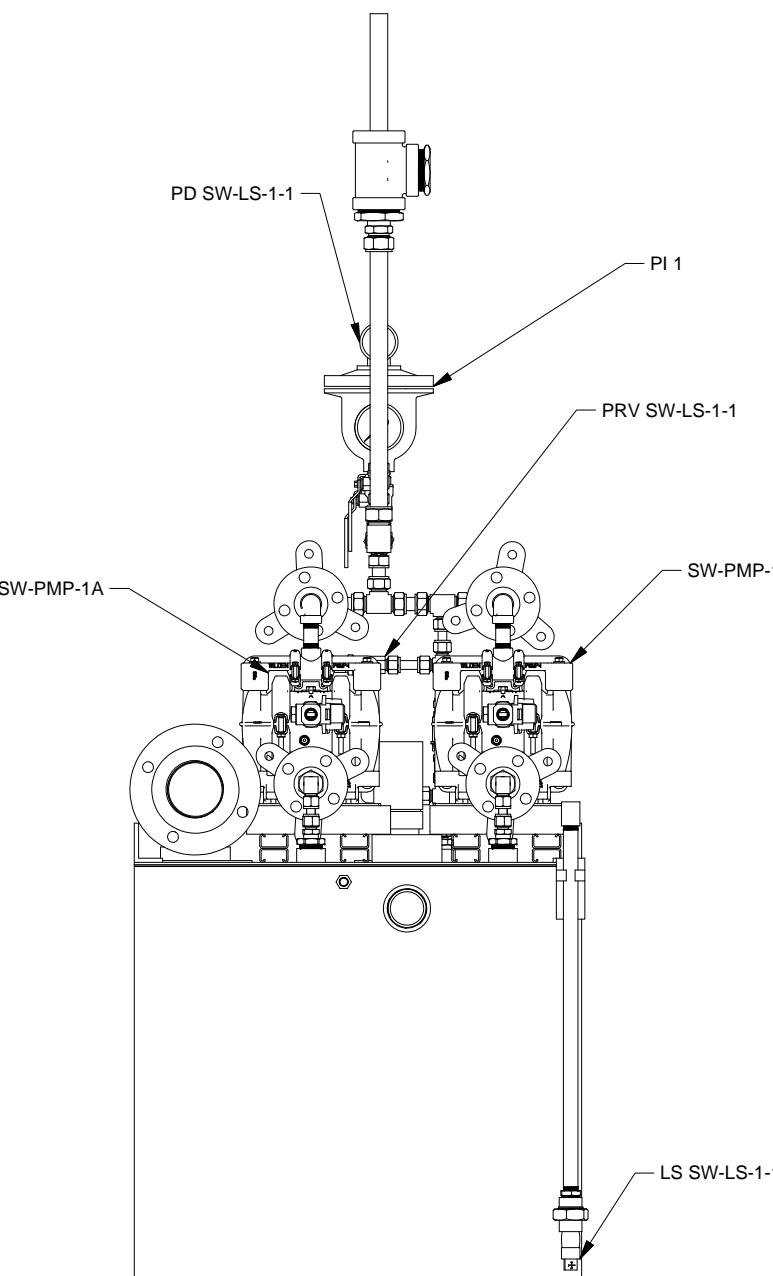
TITLE:	REVISION
ARIA SOLVENT CONCENTRATE LIFT STATION (SW-LS) MECHANICAL GENERAL ARRANGEMENT	3
SIZE DWG. NO.	141194-MG-101
SCALE: NTS	SHEET: 1 OF 3



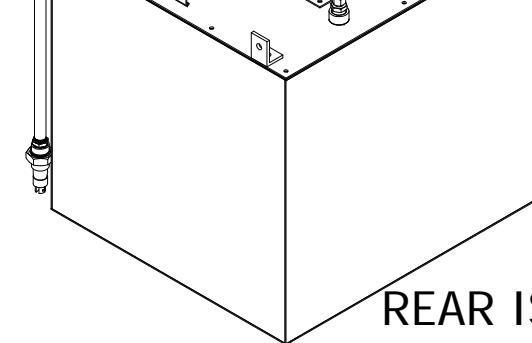
PLAN VIEW



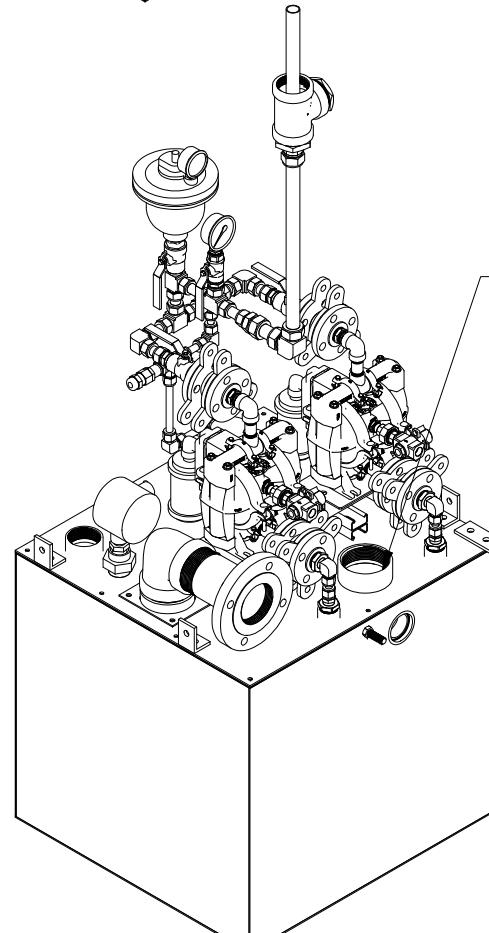
DETAIL B  
(TIE-DOWN)



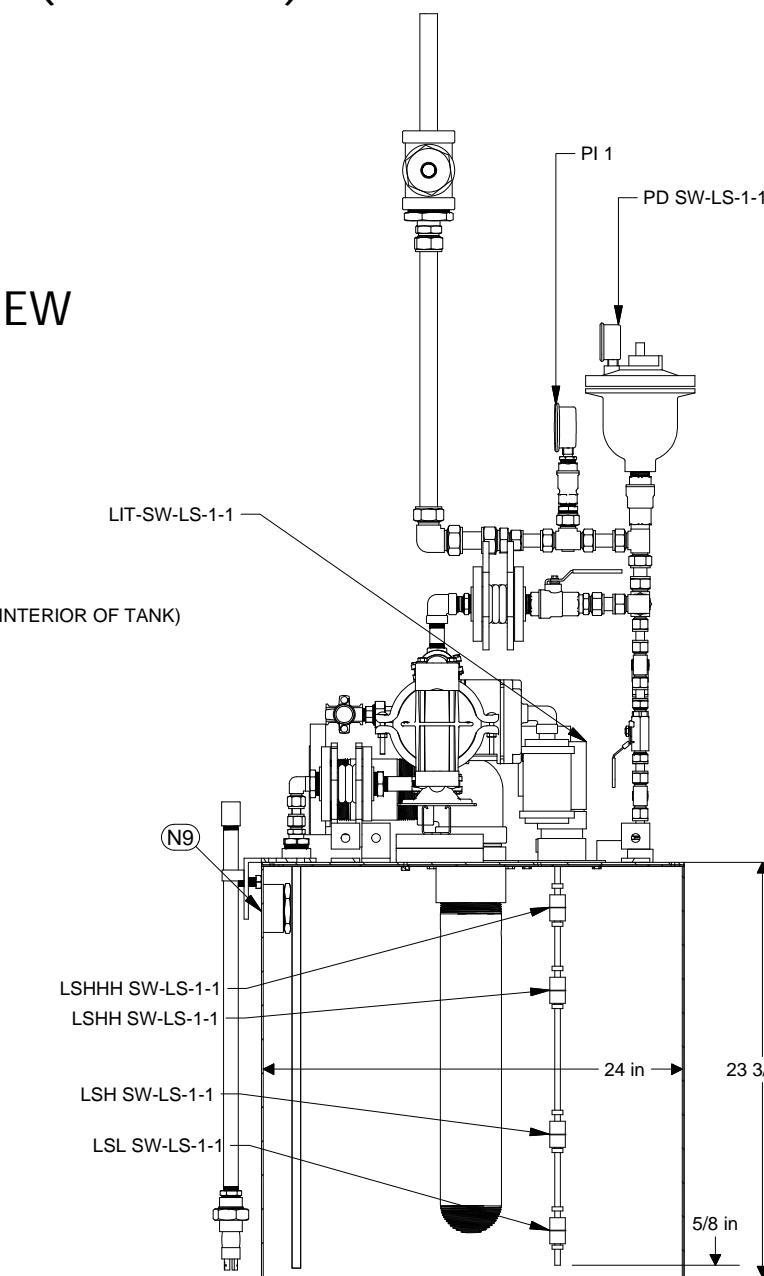
ELEVATION VIEW



REAR ISOMETRIC VIEW



FRONT ISOMETRIC VIEW



SIDE ELEVATION VIEW

NOZZLE SCHEDULE			
NOZZLE	DESCRIPTION	QTY	SERVICE
N1	1" TUBE	1	DISCHARGE CONNECTION
N2	2" MNPT	1	DOUBLE CONTAINMENT
N3	3" MNPT	1	INLET CONNECTION
N4	6" x 10" TROUGH	1	DOUBLE CONTAINMENT
N5	2" FLANGE	1	VENT CONNECTION
N6	3/8" FNPT	1	CDA SUPPLY TO SW-PMP-1A
N7	3/8" FNPT	1	CDA SUPPLY TO SW-PMP-1B
N8	1/4" FNPT	1	CDA SUPPLY TO PD SW-LS-1-1
N9	2" FNPT	1	OVERFLOW (PLUGGED)
N10	1" FNPT	1	SECONDARY TANK DRAIN
N11	3/4" MNPT	1	FIRE PROTECTION SYSTEM
N12	1/2" TUBE	1	SECONDARY CONTAINMENT DRAIN
N13	2" MNPT	1	CABINET OVERFLOW
N14	3/4" MNPT	1	INLET CONTAINMENT DRAIN
N15	1/4" FNPT	1	CONTAINMENT DRAIN TEST PORT

NOTES:

- MATERIALS OF CONSTRUCTION:  
A) CABINET TO BE FABRICATED FROM 304 STAINLESS STEEL  
B) PRIMARY TANK TO BE FABRICATED FROM 12 GA 316 STAINLESS STEEL  
C) TANK LID AND ENCLOSURE FABRICATED FROM 10 GA 316 STAINLESS STEEL  
D) TIE-DOWNS FABRICATED FROM 1/4" THICK 316 STAINLESS STEEL  
E) ALL PRESSURIZED PIPING, TUBING, AND FITTINGS 316SS SCHED 40  
F) ALL NON PRESSURIZED PIPING, TUBING AND FITTINGS 316SS SCHED 10
- INSTALLATION, INTERCONNECTING PIPING AND WIRING SUPPLIED AND INSTALLED BY OTHERS. INSTALLER TO PROVIDE ADEQUATE VENTILATION TO SYSTEM.
- ANCHOR BOLTS TO BE SIZED BY WASTECH, SUPPLIED BY OTHERS.
- DIMENSIONS FOR REFERENCE ONLY. TOLERANCE ±2%
- APPROXIMATE EQUIPMENT WEIGHTS:  
A) DRY WEIGHT: 825 LBS  
B) OPERATING WEIGHT: 1420 LBS  
C) MAXIMUM WEIGHT: 1890 LBS

REV.	DATE:	BY:	DESCRIPTION
3	5/14/2015	MM	AS BUILT
2	3/31/2015	MM	ISSUED FOR FABRICATION
1	1/22/2015	MM	RESUBMITTED FOR APPROVAL
0	12/12/2014	MM	SUBMITTED FOR APPROVAL

APPROVALS DATE

DRAWN BY: MM 12/12/2014

PROJECT ENG.: SS

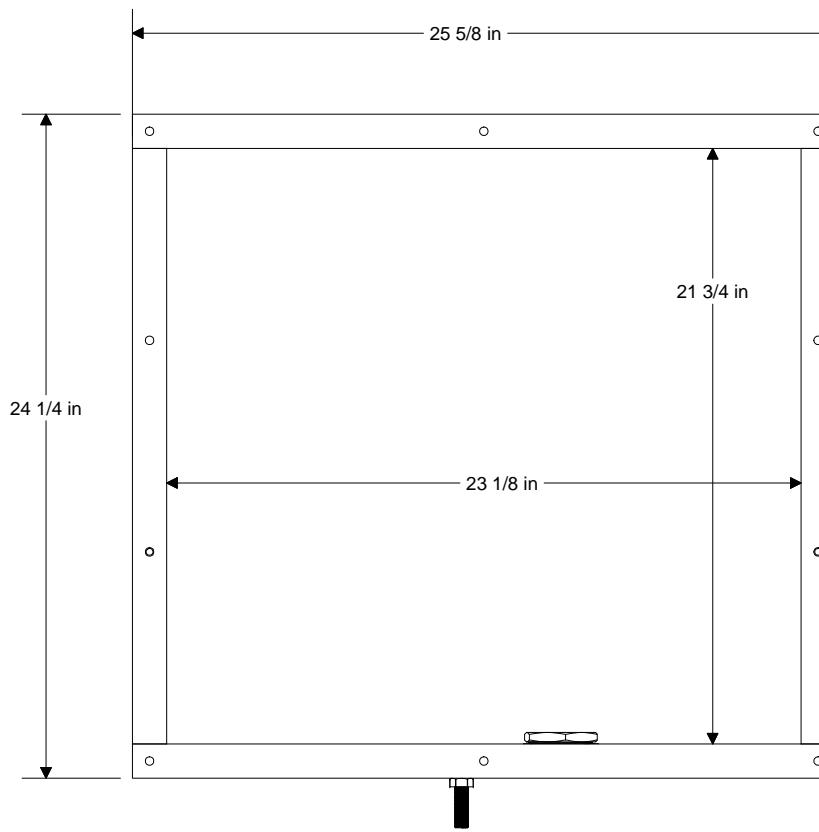
ENGINEERING MANAGER: SS

PROPRIETARY INFORMATION

©2015 WASTECH CONTROLS & ENGINEERING, INC.  
THIS DRAWING AND ALL INFORMATION HEREON IS THE PROPERTY OF WASTECH CONTROLS & ENGINEERING INC.  
ANY COPYING, REPRODUCTION OR UNAUTHORIZED USE WITHOUT WRITTEN CONSENT IS PROHIBITED.

 **WASTECH**  
CONTROLS & ENGINEERING, INC.  
21201 Itasca Street, Chatsworth, California 91311-4922  
Tel: (818) 998-3500 Fax: (818) 998-4939

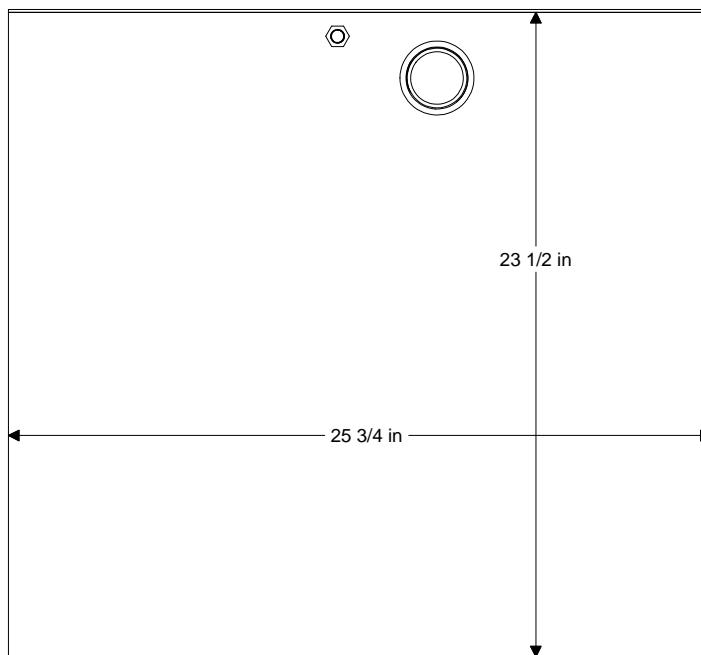
TITLE: ARIA SOLVENT CONCENTRATE LIFT STATION (SW-LS) MECHANICAL GENERAL ARRANGEMENT	SIZE DWG. NO.	REVISION
	B 141194-MG-102	3
SCALE: NTS		SHEET: 2 OF 3



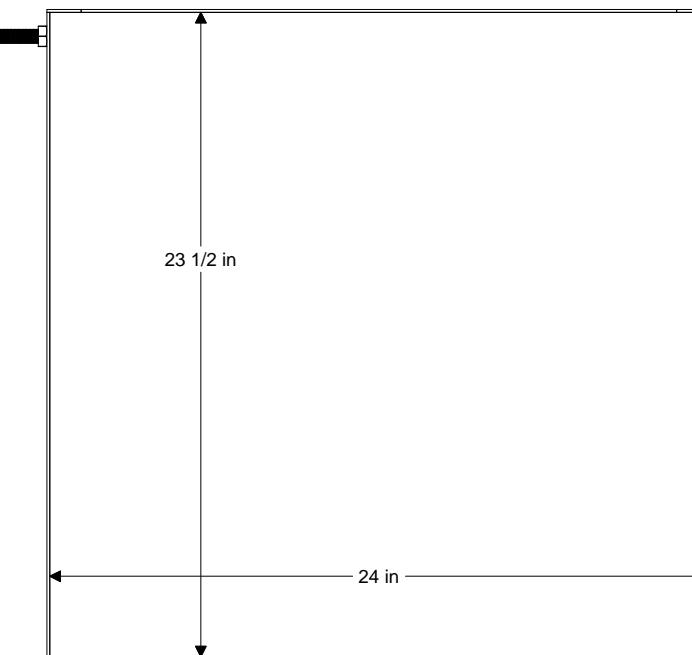
PLAN VIEW

**TANK VOLUME: 67 GAL**

**CONTAINMENT VOLUME  
IN CABINET: 115 GAL**



ELEVATION VIEW



SIDE ELEVATION VIEW

NOZZLE SCHEDULE			
NOZZLE	DESCRIPTION	QTY	SERVICE
N1	1" TUBE	1	DISCHARGE CONNECTION
N2	2" MNPT	1	DOUBLE CONTAINMENT
N3	3" MNPT	1	INLET CONNECTION
N4	6" x 10" TROUGH	1	DOUBLE CONTAINMENT
N5	2" FLANGE	1	VENT CONNECTION
N6	3/8" FNPT	1	CDA SUPPLY TO SW-PMP-1A
N7	3/8" FNPT	1	CDA SUPPLY TO SW-PMP-1B
N8	1/4" FNPT	1	CDA SUPPLY TO PD SW-LS-1-1
N9	2" FNPT	1	OVERFLOW (PLUGGED)
N10	1" FNPT	1	SECONDARY TANK DRAIN
N11	3/4" MNPT	1	FIRE PROTECTION SYSTEM
N12	1/2" TUBE	1	SECONDARY CONTAINMENT DRAIN
N13	2" MNPT	1	CABINET OVERFLOW
N14	3/4" MNPT	1	INLET CONTAINMENT DRAIN
N15	1/4" FNPT	1	CONTAINMENT DRAIN TEST PORT

NOTES:

- MATERIALS OF CONSTRUCTION:  
A) CABINET TO BE FABRICATED FROM 304 STAINLESS STEEL  
B) PRIMARY TANK TO BE FABRICATED FROM 12 GA 316 STAINLESS STEEL  
C) TANK LID AND ENCLOSURE FABRICATED FROM 10 GA 316 STAINLESS STEEL  
D) TIE-DOWNS FABRICATED FROM 1/4" THICK 316 STAINLESS STEEL  
E) ALL PRESSURIZED PIPING, TUBING, AND FITTINGS 316SS SCHED 40  
F) ALL NON-PRESSURIZED PIPING, TUBING AND FITTINGS 316SS SCHED 10
- INSTALLATION, INTERCONNECTING PIPING AND WIRING SUPPLIED AND INSTALLED BY OTHERS. INSTALLER TO PROVIDE ADEQUATE VENTILATION TO SYSTEM.
- ANCHOR BOLTS TO BE SIZED BY WASTECH, SUPPLIED BY OTHERS.
- DIMENSIONS FOR REFERENCE ONLY. TOLERANCE ±2%.
- APPROXIMATE EQUIPMENT WEIGHTS:  
A) DRY WEIGHT: 825 LBS  
B) OPERATING WEIGHT: 1420 LBS  
C) MAXIMUM WEIGHT: 1890 LBS

REV.	DATE:	BY:	DESCRIPTION
3	5/14/2015	MM	AS BUILT
2	3/31/2015	MM	ISSUED FOR FABRICATION
1	1/22/2015	MM	RESUBMITTED FOR APPROVAL
0	12/12/2014	MM	SUBMITTED FOR APPROVAL

APPROVALS DATE

DRAWN BY: MM 12/12/2014

PROJECT ENG.: SS

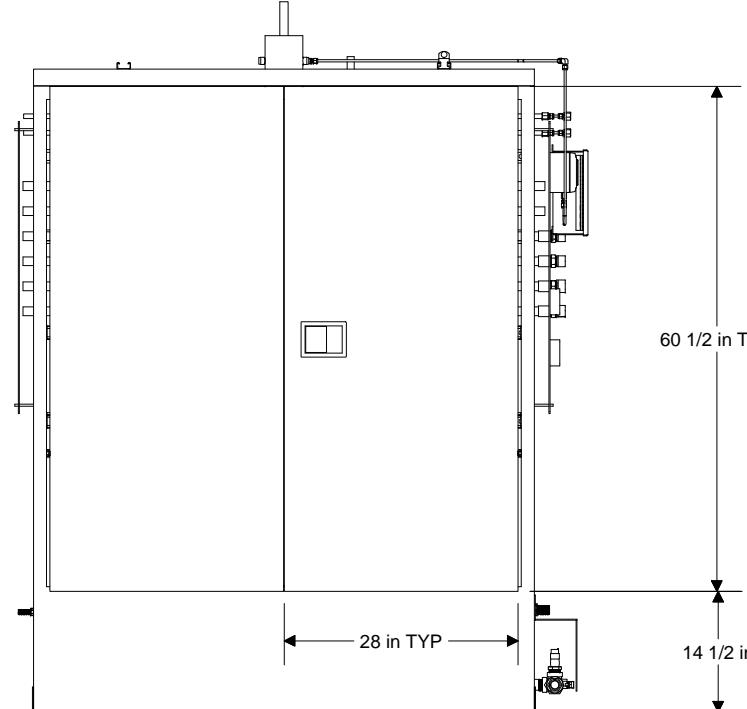
ENGINEERING MANAGER: SS

PROPRIETARY INFORMATION

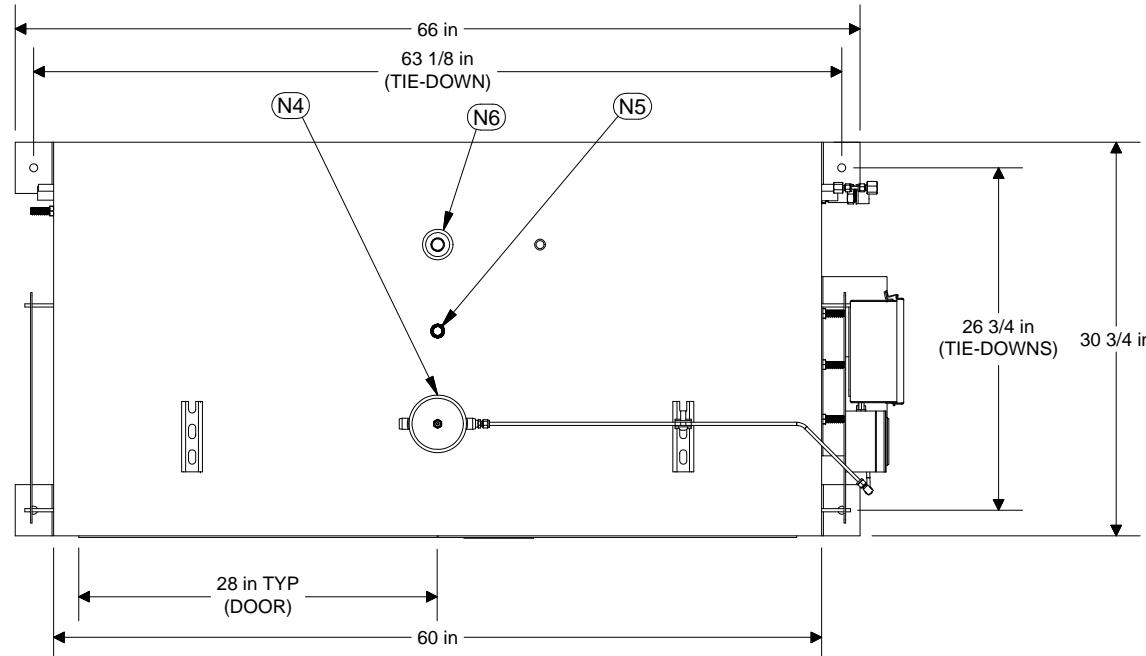
©2015 WASTECH CONTROLS & ENGINEERING, INC.  
THIS DRAWING AND ALL INFORMATION HEREON IS THE PROPERTY OF WASTECH CONTROLS & ENGINEERING INC.  
ANY COPYING, REPRODUCTION OR UNAUTHORIZED USE WITHOUT WRITTEN CONSENT IS PROHIBITED.

WASTECH	CONTROLS & ENGINEERING, INC.
	21201 Itasca Street, Chatsworth, California 91311-4922
	Tel: (818) 998-3500 Fax: (818) 998-4939
TITLE: ARIA	REVISION
SOLVENT CONCENTRATE LIFT STATION (SW-LS)	3
MECHANICAL GENERAL ARRANGEMENT	
SIZE DWG. NO.	141194-MG-103
B	
SCALE: NTS	SHEET: 3 OF 3

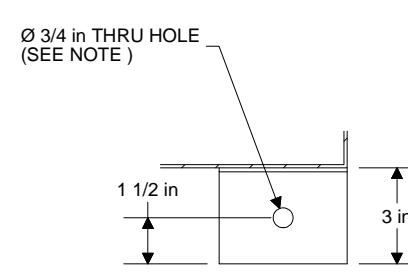
ATTACHMENT 2  
COLLECTION CABINET (SW-CC-1) INFORMATION



FRONT VIEW



PLAN VIEW

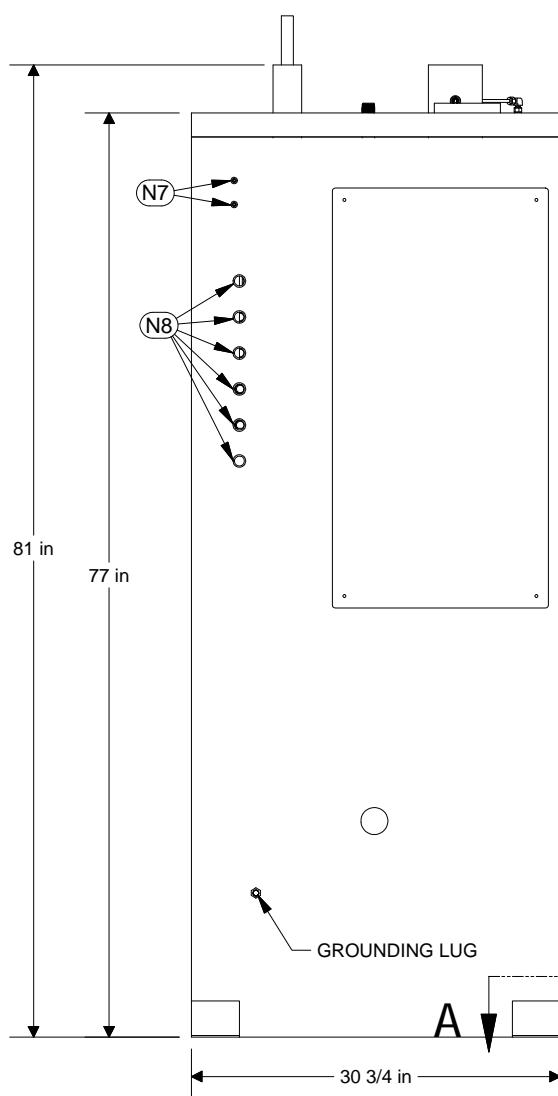


SECTION A-A

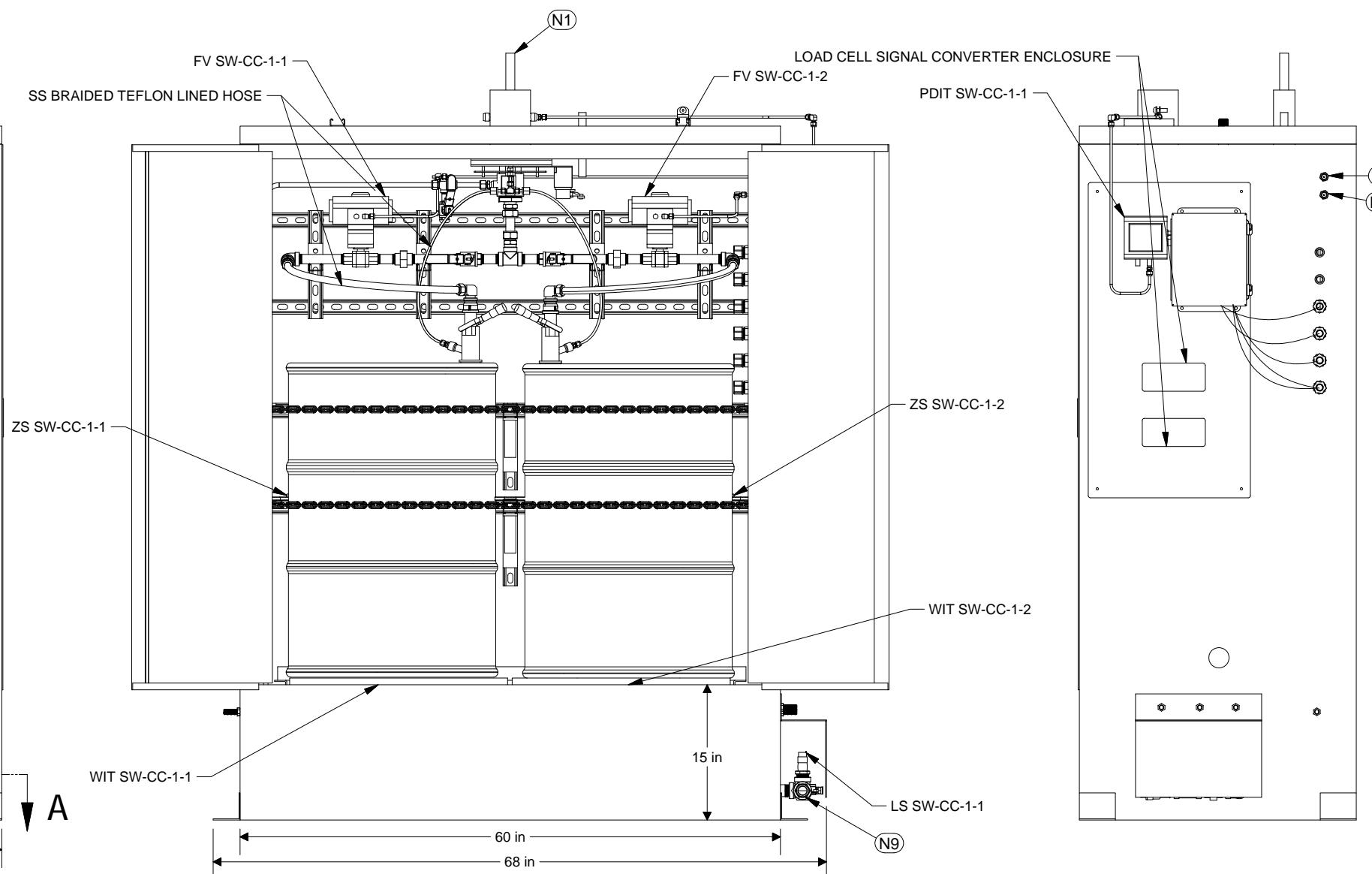
NOZZLE SCHEDULE			
NOZZLE	DESCRIPTION	QTY	SERVICE
N1	1" TUBE	1	SOLVENT INLET
N2	3/8" FNPT	1	CDA INLET TO FV
N3	3/8" FNPT	1	CDA INLET TO FV
N4	4" MNPT	1	CABINET VENT
N5	3/4" MNPT	1	FIRE PROTECTION INLET
N6	2" MNPT	1	INLET DOUBLE CONTAINMENT
N7	3/8" FNPT	2	PLUGGED SPARE
N8	1" FNPT	6	PLUGGED SPARE
N9	1" FNPT	1	CONTAINMENT DRAIN

NOTES:

- MATERIALS OF CONSTRUCTION
  - A) CABINET TO BE FABRICATED FROM 304 STAINLESS STEEL.
  - B) ROLLERS TO BE FABRICATED FROM STAINLESS STEEL.
  - C) DRUMS TO BE PROVIDED BY OTHERS.
- ALL PIPING AND FITTINGS TO BE 316 SS SCH 40.
- SOME SUPPORTS NOT SHOWN FOR CLARITY.
- INSTALLATION, INTERCONNECTING PIPING AND WIRING SUPPLIED AND INSTALLED BY OTHERS. INSTALLER TO PROVIDE ADEQUATE VENTILATION TO THE CABINET.
- ANCHOR BOLTS TO BE SIZED BY WASTECH AND PROVIDED BY OTHERS.
- DOUBLE CONTAINMENT VOLUME: 78 GALLONS
- APPROXIMATE EQUIPMENT WEIGHTS:
  - A) DRY WEIGHT: 1100 LBS
  - B) OPERATING WEIGHT: 1850 LBS
  - C) MAXIMUM WEIGHT: 2500 LBS



SIDE ELEVATION VIEW



FRONT ELEVATION VIEW

SIDE ELEVATION VIEW

REV.	DATE:	BY:	DESCRIPTION
3	6/08/2015	MM	AS BUILT
2	3/31/2015	MM	ISSUED FOR FABRICATION
1	1/22/2015	MM	RESUBMITTED FOR APPROVAL
0	08/15/2014	MM	SUBMITTED FOR APPROVAL

APPROVALS DATE

DRAWN BY: MM 08/15/2014

PROJECT ENG.: SS

ENGINEERING MANAGER: SS

#### PROPRIETARY INFORMATION

©2015 WASTECH CONTROLS & ENGINEERING, INC.  
THIS DRAWING AND ALL INFORMATION HEREON IS THE PROPERTY OF WASTECH CONTROLS & ENGINEERING INC.  
ANY COPYING, REPRODUCTION OR UNAUTHORIZED USE WITHOUT WRITTEN CONSENT IS PROHIBITED.

	<b>WASTECH</b> CONTROLS & ENGINEERING, INC. 21201 Itasca Street, Chatsworth, California 91311-4922 Tel: (818) 998-3500 Fax: (818) 998-4939 <a href="http://www.wastechengineering.com">www.wastechengineering.com</a>
TITLE: ARIA SOLVENT COLLECTION CABINET (SW-CC-1) MECHANICAL GENERAL ARRANGEMENT	REVISION 3
SIZE DWG. NO. B 141194-MG-201	SCALE: NTS

ATTACHMENT 3  
LEAK TEST RECORDS



## PRESSURE TEST FORM

Project: ARMS	Test No.: 59
System: SOLVENT WASTE	Job #: 330382-I Date: 9/23/15

## Brief Description of Test and Boundaries

CONTINUED  
ON TEST 60

Drawing / Spool #:	SOLVENT WASTE PRIMARY FROM LIFT STATION TO COLLECTION CABINET	
Specification Title Section:	SOLVENT WASTE PRIMARY	
Allowable Pressure Change:	0	PSIG 100
Test Medium:	AIR	
Point of Connection:	LIFT STATION (IN TRENCH)	
Point of Termination:	COLLECTION CABINET	

## Test Results

Date	Time			Pressure		Passed (Yes / No)	Comments
	Start	End	Duration	Start	End		
9/23/15	7:00		24	0		Yes / No	
9/25/15	06132	0914AM	730M	94.84	97PSI	Yes / No	PASS SHUT DOWN LIFT STATION SOLVENT CABINET TEMP ADJ
						Yes / No	
						Yes / No	
						Yes / No	

COMMENTS: \_\_\_\_\_

Completed By: RJ Barl  
Witnessed By: D.M. J.B.

Date: 9-23-15

Date: 9/25/15



## PRESSURE TEST FORM

Project: ARIAS

Test No.: 60

System: SOLVENT WASTE

Job #: 330382-I

Date: 9/23/15

CONTINUED  
FROM TEST 59

## Brief Description of Test and Boundaries

Drawing / Spool #:	SECONDARY SOLVENT WASTE LINE FROM: LIFT STATION TO : Collection CABINET
Specification Title Section:	SOLVENT SECONDARY WASTE LINE
Allowable Pressure Change:	PSIG
Test Medium:	AIR
Point of Connection:	LIFT STATION
Point of Termination:	collection CABINET

## Test Results

Date	Time			Pressure		Passed (Yes / No)	Comments
	Start	End	Duration	Start	End		
9/23/15	7:00		24 HRS.	6		Yes / No	
9/25/15	0630	9:00 AM	7 hours 30 min	5.6	5.4	Yes / No	
	9:00	11:40	2 hours 40 min	5.6	5.4	Yes / No	Passed
	11:42	11:42	0 min	5.6	5.8	Yes / No	passed secondary waste line from lift station to collection cabinet in 20-30 min by method
						Yes / No	on demand and in
						Yes / No	surv.

COMMENTS: \_\_\_\_\_

Completed By: RJi Bruf

Date: 9-23-15

Witnessed By: Dmf Jlh

Date: 9/25/15

# MULTIPLE SYSTEM PRESSURE RETENTION TESTS PAGE 1 OF 1

**CLIENT:** ARIA / Apple

**CONTRACTOR:** Paragon Mechanical

**TOOL:** 1700 Gallon Solvent Waste Tank

---

**TEST LOCATION:** ARIA - 3250 Scott Blvd. - Santa Clara / Outside Gas Pad

TEST DATE: 7/21/2017

TYPE: PNEUMATIC  HYDROSTATIC  MEDIA Argon

**TEST GAUGE: MAKE NA**      **SERIAL # NA**      **PSIG: NA**

## COMMENTS:

.....

**TEST WITNESSED BY:** Demar Mills

DATE: 7/21/2017

TEST PERFORMED BY: PARAGON MECHANICAL

DATE: 7/21/2017

MULTIPLE SYSTEM PRESSURE RETENTION TESTS PAGE 1 OF 1

**CLIENT:** ARIA / Apple

**CONTRACTOR:** Paragon Mechanical

**TOOL:** 1700 Gallon Solvent Waste Tank

**TEST LOCATION:** ARIA - 3250 Scott Blvd. - Santa Clara / Outside Gas Pad

TEST DATE: 7/21/2017

TYPE: PNEUMATIC  HYDROSTATIC  MEDIA Argon

**SENSITIVITY:** NA      **CALIBRATION DUE DATE:** NA

## **COMMENTS:**

**TEST WITNESSED BY:** Demar Mills

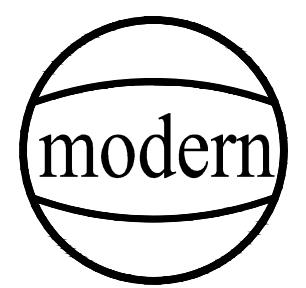
DATE: 7/21/2017

TEST PERFORMED BY: PARAGON MECHANICAL

DATE: 7/21/2017

ATTACHMENT 4  
SOLVENT WASTE TANK (SW-TNK-2) INFORMATION

NO. REQD.: ONE (1) ITEM NO.: FG1700R



modern welding company of california, inc.  
4141 N. BRAWLEY AVE FRESNO, CA 93722  
PH. 559-275-9353 FAX 559-275-4381

## INTEGRATED ENGINEERING SERVICES 1,700 GALLON UL 2085 FIREGUARD TANK

DWN. BY	JC	DATE 8/19/16	SCALE: NONE
CHK. BY		JOB NO.	DWG. NO. 13826 6
APR. BY		P.O. NO.	SHT. NO. 1 OF 1

CARB EXECUTIVE ORDER VR-302-C

### PAINT NOTES

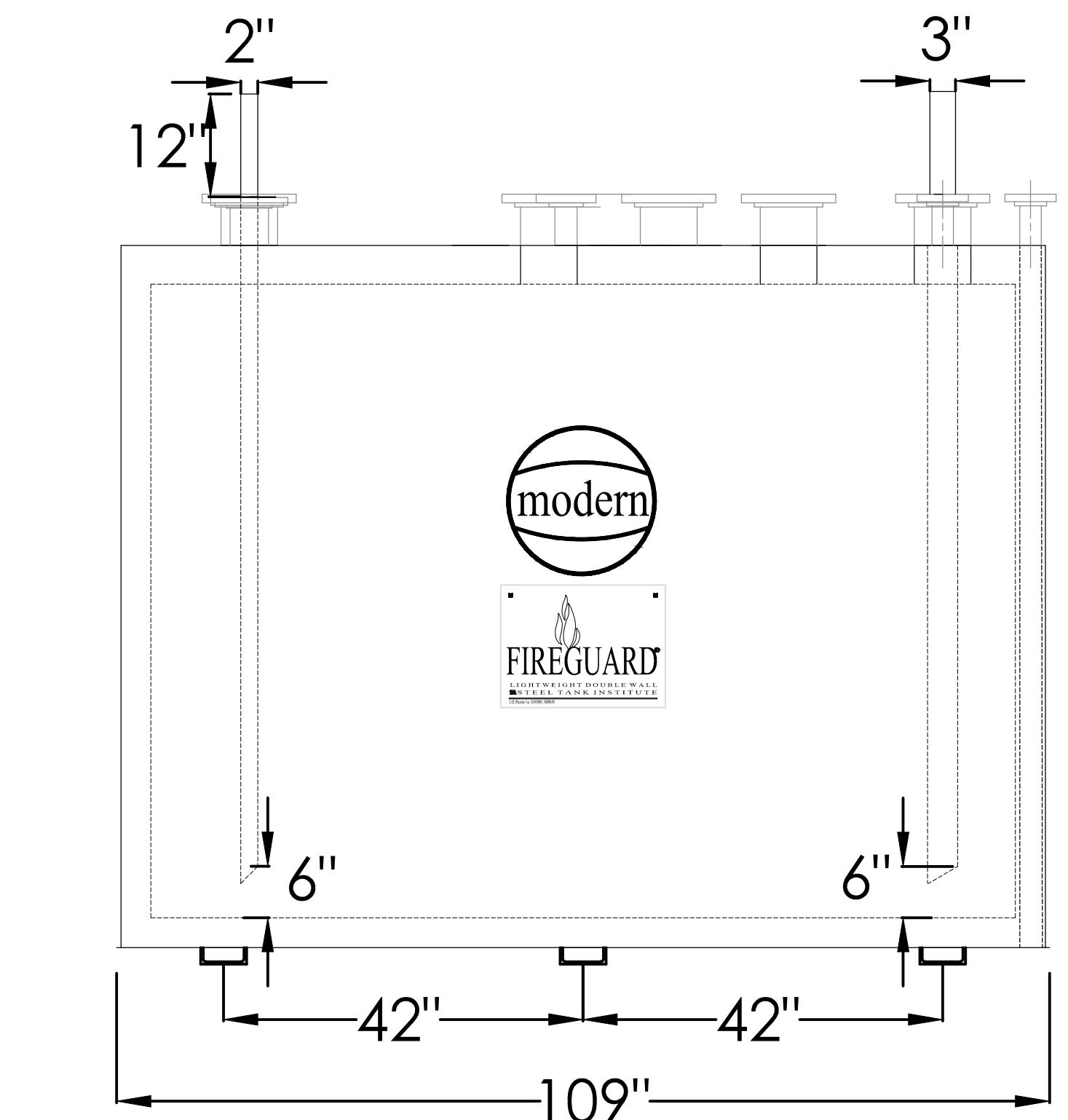
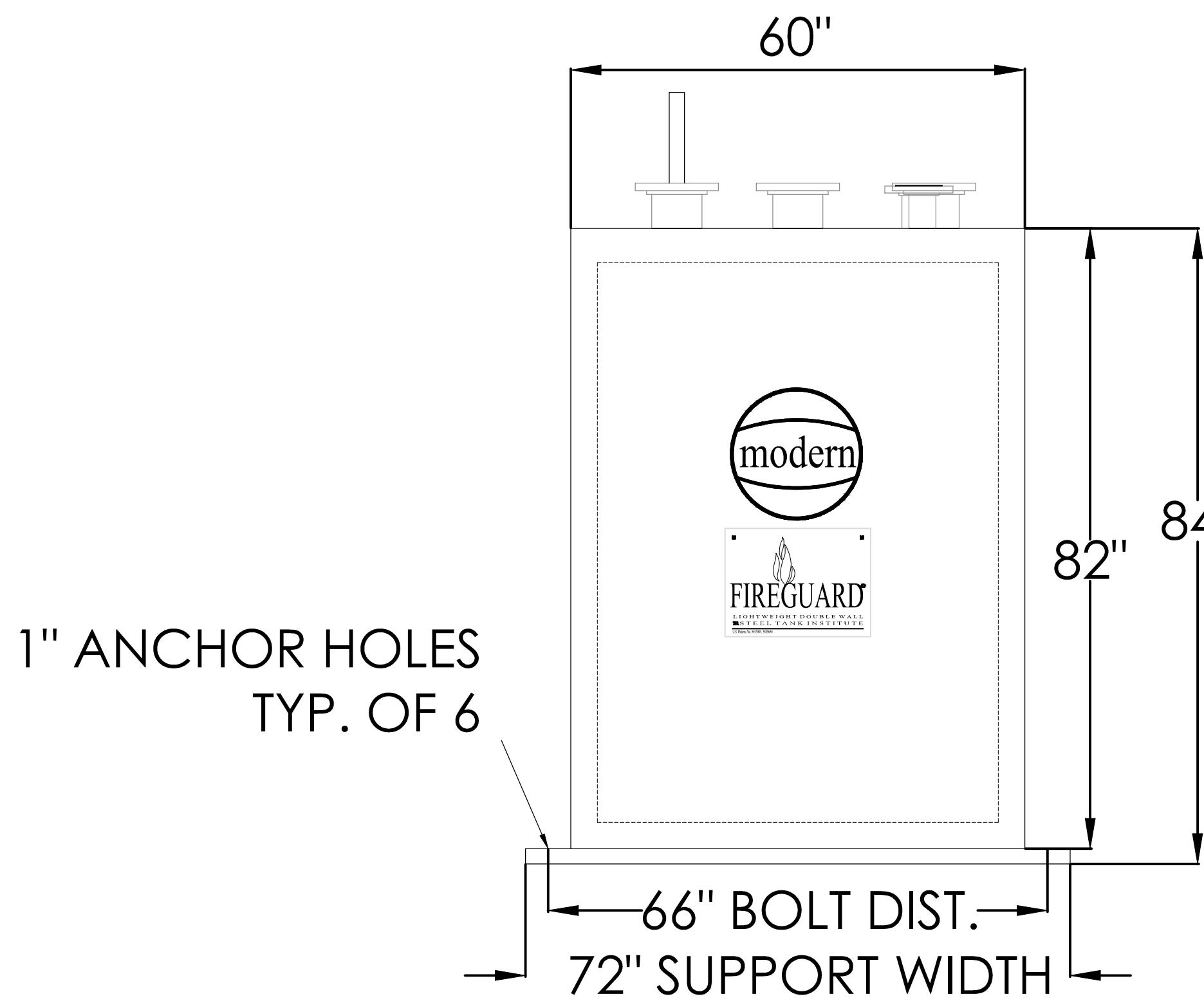
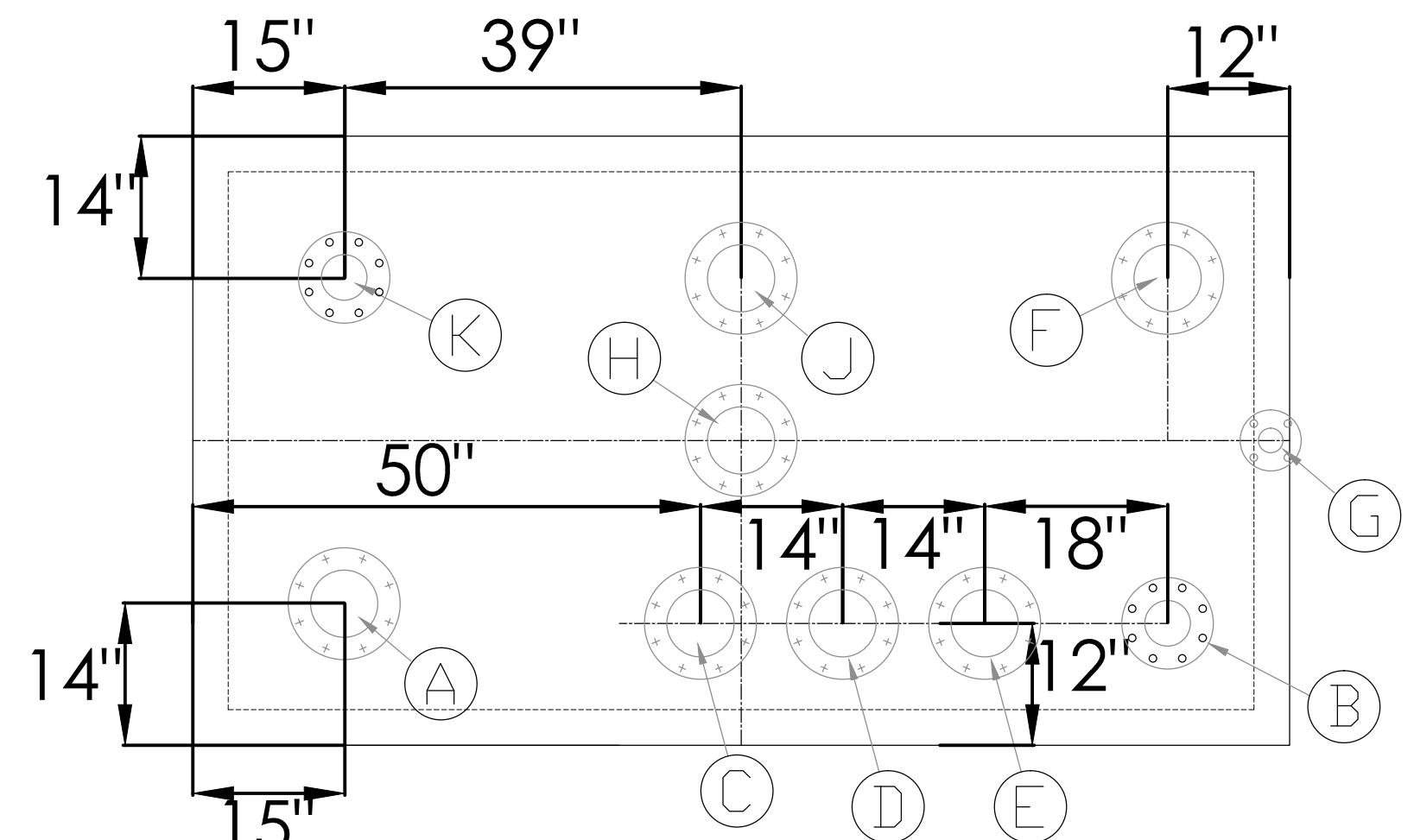
INTERIOR: BARE, CLEAN OF DEBRIS

EXTERIOR: WHITE POLYURETHANE

NOTE: PRIMARY TANK AND OPENINGS  
OF 316L STAINLESS STEEL

A	1	6"	RFSO	SPARE
B	1	4"	RFSO	PUMP
C	1	6"	RFSO	VENT
D	1	6"	FFSO	SEC. E-VENT
E	1	6"	FFSO	PRI. E-VENT
F	1	6"	RFSO	SPARE
G	1	2"	RFSO	MONITOR
H	1	6"	RFSO	SPARE
J	1	6"	RFSO	SPARE
K	1	4"	RFSO	WASTE INLET

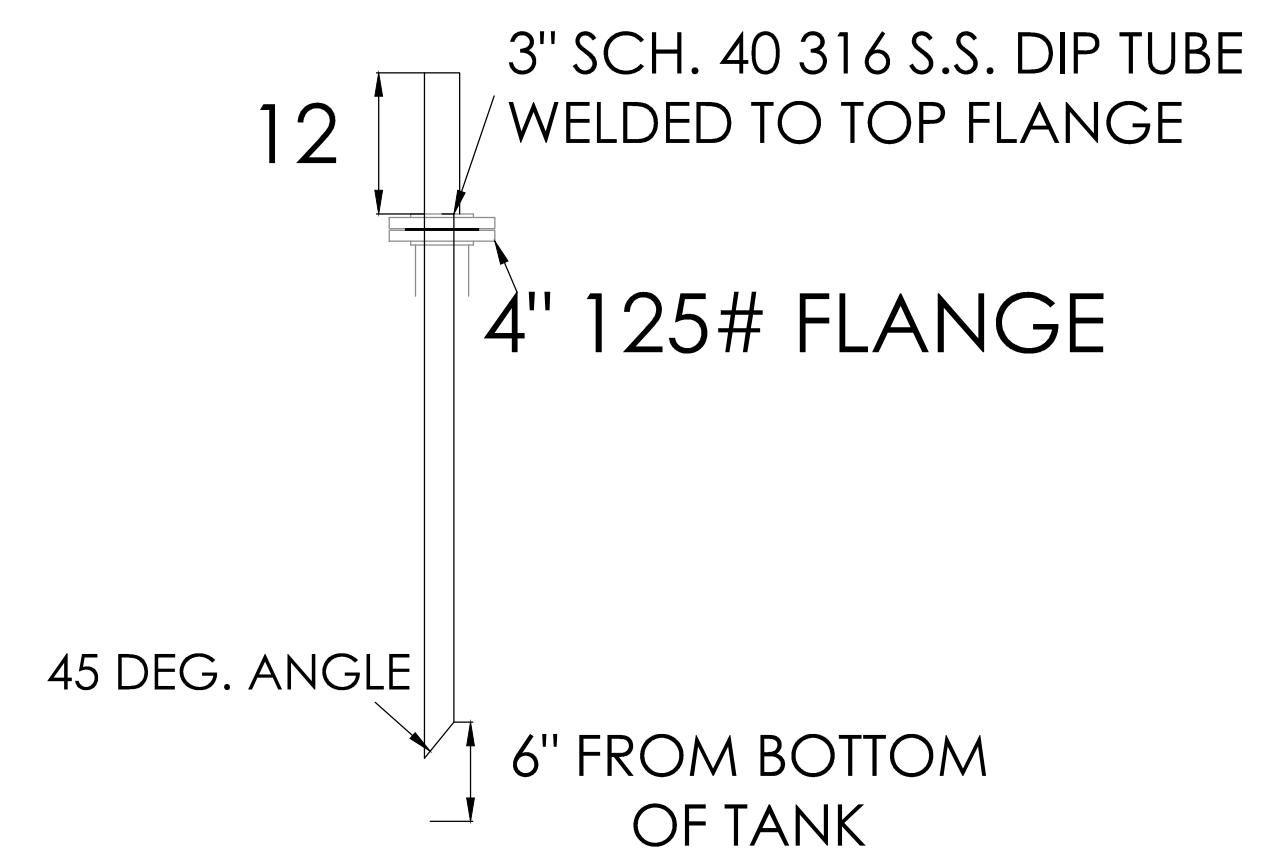
### SCHEDULE OF OPENINGS



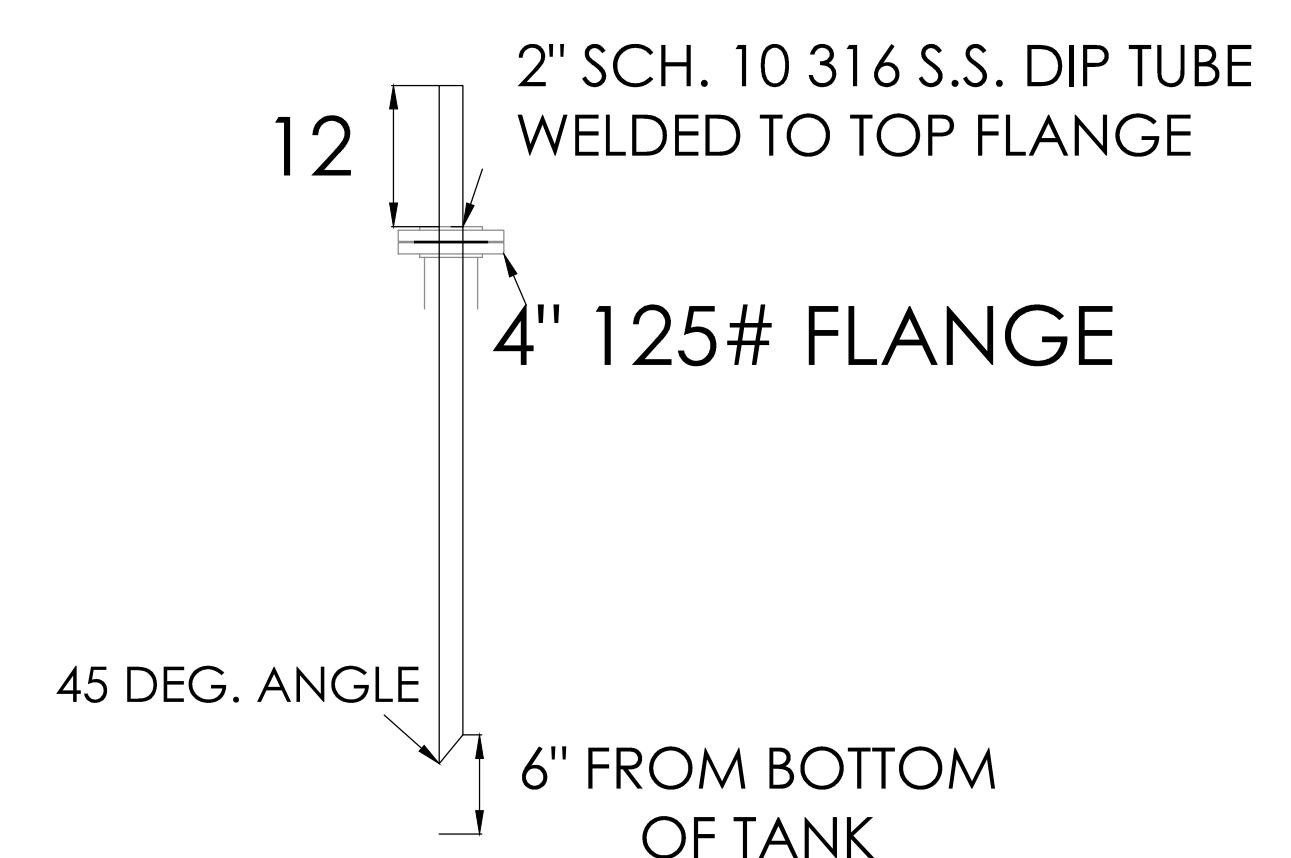
### GENERAL NOTES

- 1) INNER & OUTER TANKS SHALL BE CONSTRUCTED PER UL-142. TANKS SHALL BEAR UL 2085 LABEL FOR "INSULATED SECONDARY CONTAINMENT ABOVEGROUND TANK FOR FLAMMABLE LIQUIDS".

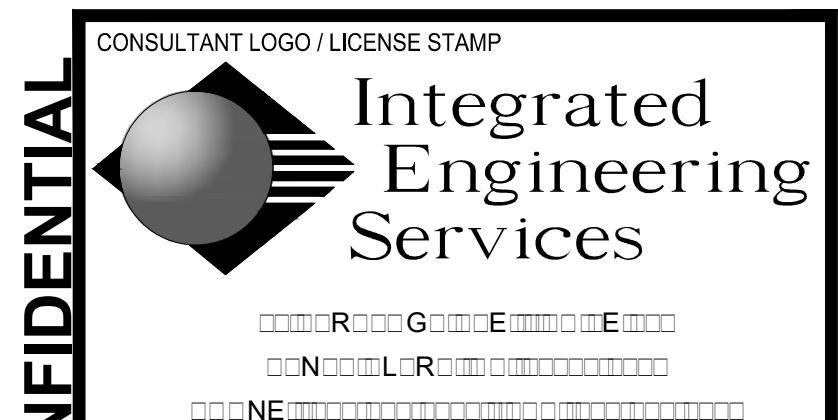
ESTIMATED EMPTY TANK WEIGHT: 9,200#



FITTING "B"  
DETAIL



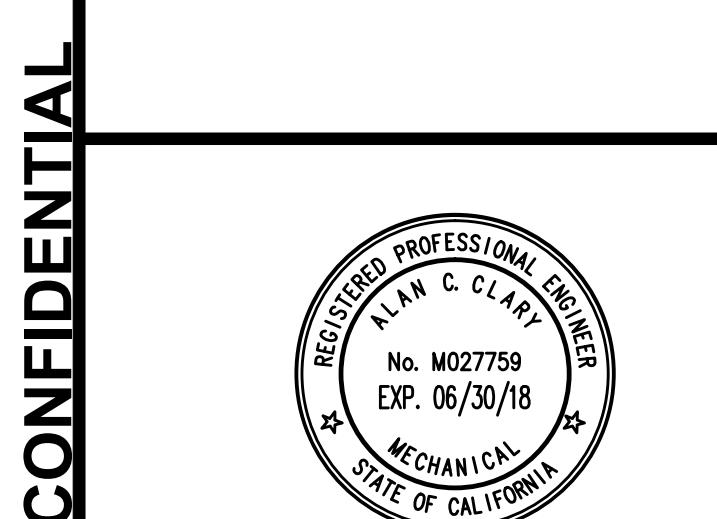
FITTING "K"  
DETAIL



PROJECT / CLIENT  
**SB-01**  
**ARIA**  
SOLVENT WASTE TANK  
INSTALLATION  
3250 SCOTT BLVD  
SANTA CLARA, CA 95054

CONFIDENTIAL

CONFIDENTIAL



RECD	DESCRIPTION	DATE
RECD DRG	DRG DRG	DRG
SHEET TITLE <b>PROCESS PIPING VENDOR CUT SHEET SW TANK</b>		
SHEET		
<b>PP6.23.4</b>		
CLIENT PROJECT ID: IES JOB NO: 2016-037		